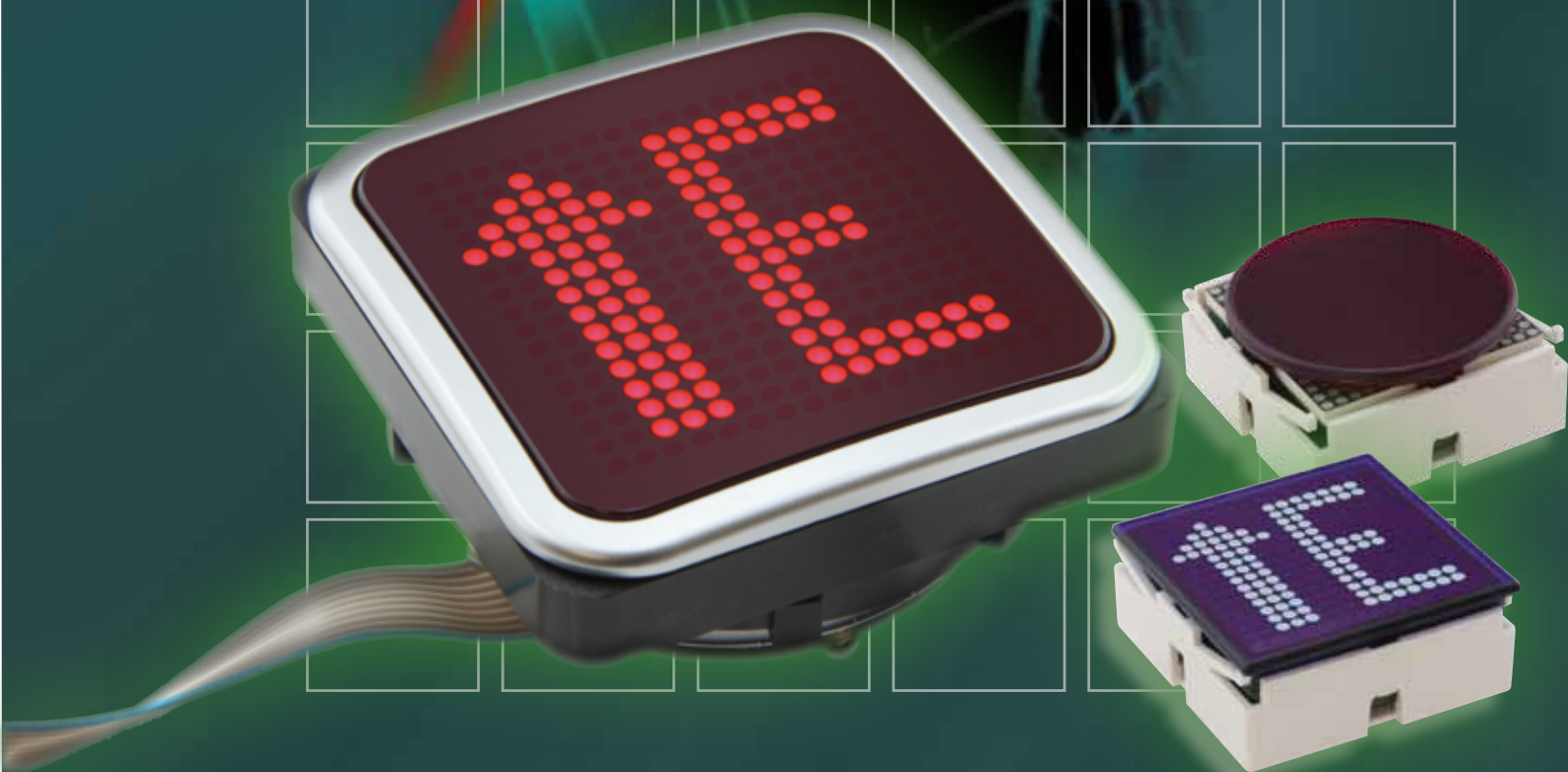
SCHAEFER

User Manual DMD 16x16

design D 50 Q
design P 50 Q
design P 50 R



SCHAEFER GmbH
Winterlinger Str. 4
72488 Sigmaringen
Germany

Phone +49 7571 722-0
Fax +49 7571 722-99
info@ws-schaefer.de
www.ws-schaefer.de

Support
If you have any questions regarding this product please contact:

Phone +49 7571 722-51
Fax +49 7571 722-99

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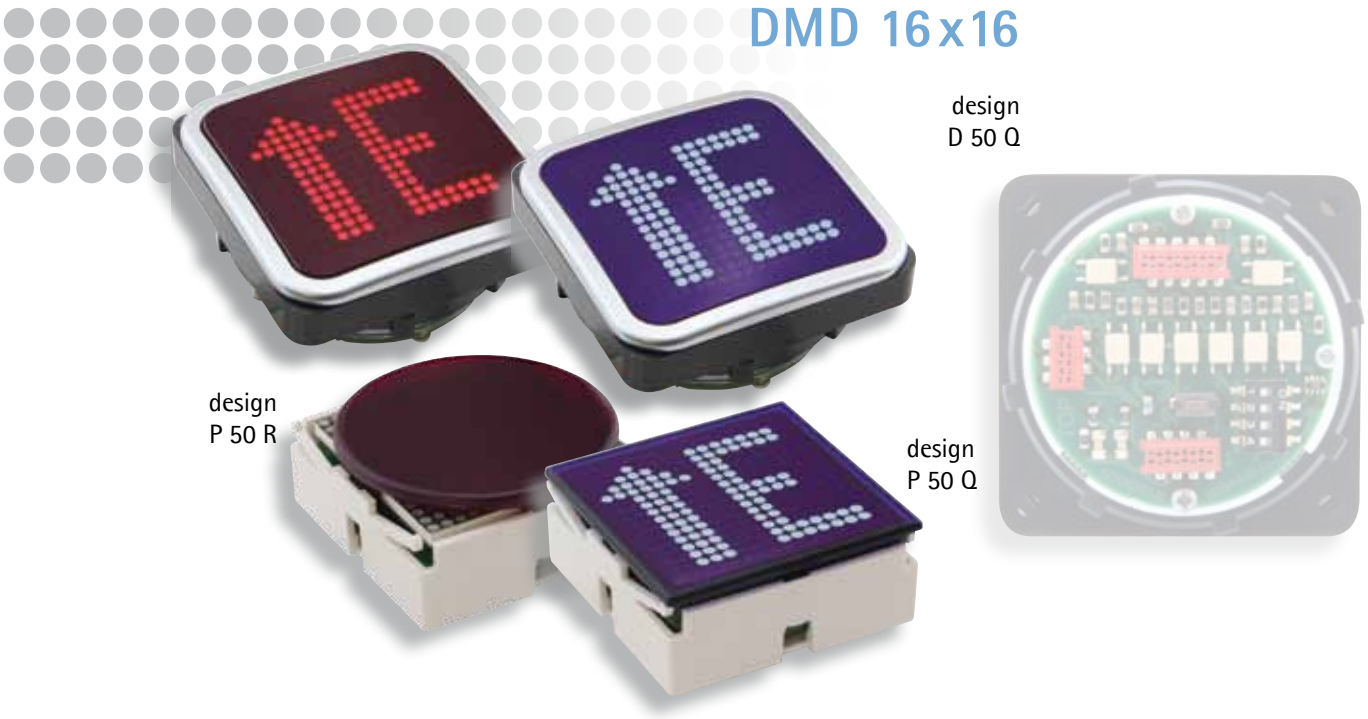
1 General description

The DMD 16x16 is a dot matrix display that can be used as floor and direction indicator. The floor changes can be displayed stationary, flashing or scrolling. Special texts can be displayed as ticker (small/big) or defined as symbols. All functions are adjustable via DIP switches. The characters as well as all functions can be configured via a PC and edited at any time.

2 Illustration



3 Configuration

There are two configuration options:

- The configuration of the DMD 16x16 is customised by SCHAEFER.
- Do-it-yourself configuration of the DMD 16x16 by means of the DMD Config Kit (article no. 010575).

4 Contacting

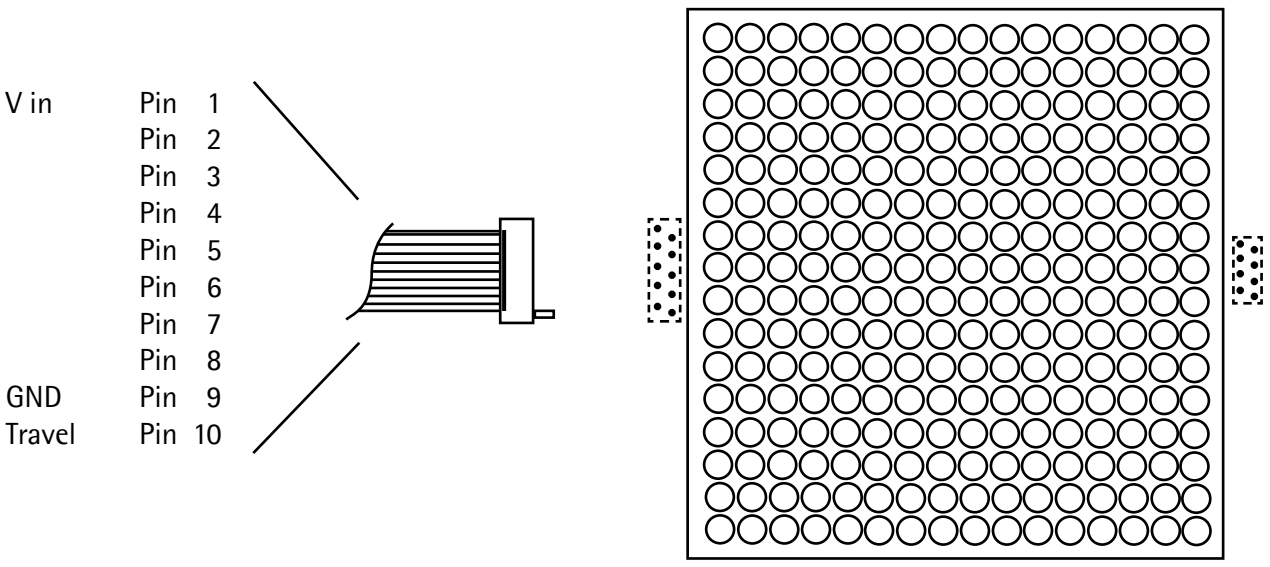
For connecting the DMD 16x16 a Connector or an Encoder is required.

	articel no.	
	common anode	common cathode
Encoder 1 out of 15	006572	006573
Encoder 1 out of 31	005545	005546
Connector	004819	

5 Pin assignment

The pin assignment can be modified via the PC (DMD Config Kit). It must be observed that the assignment of the Encoder cannot be modified, especially when pins are defined as special text.

Pin Configuration



5.1 Encoder or Connector?

The chart shows when an Encoder respectively when a Connector must be used. Depending on the number of special texts and floors, arrows can be configured and displayed with/without travelling signal.

Note: When using an Encoder (1 out of 15 or 1 out of 31) the display must be configured with "Dual" control.

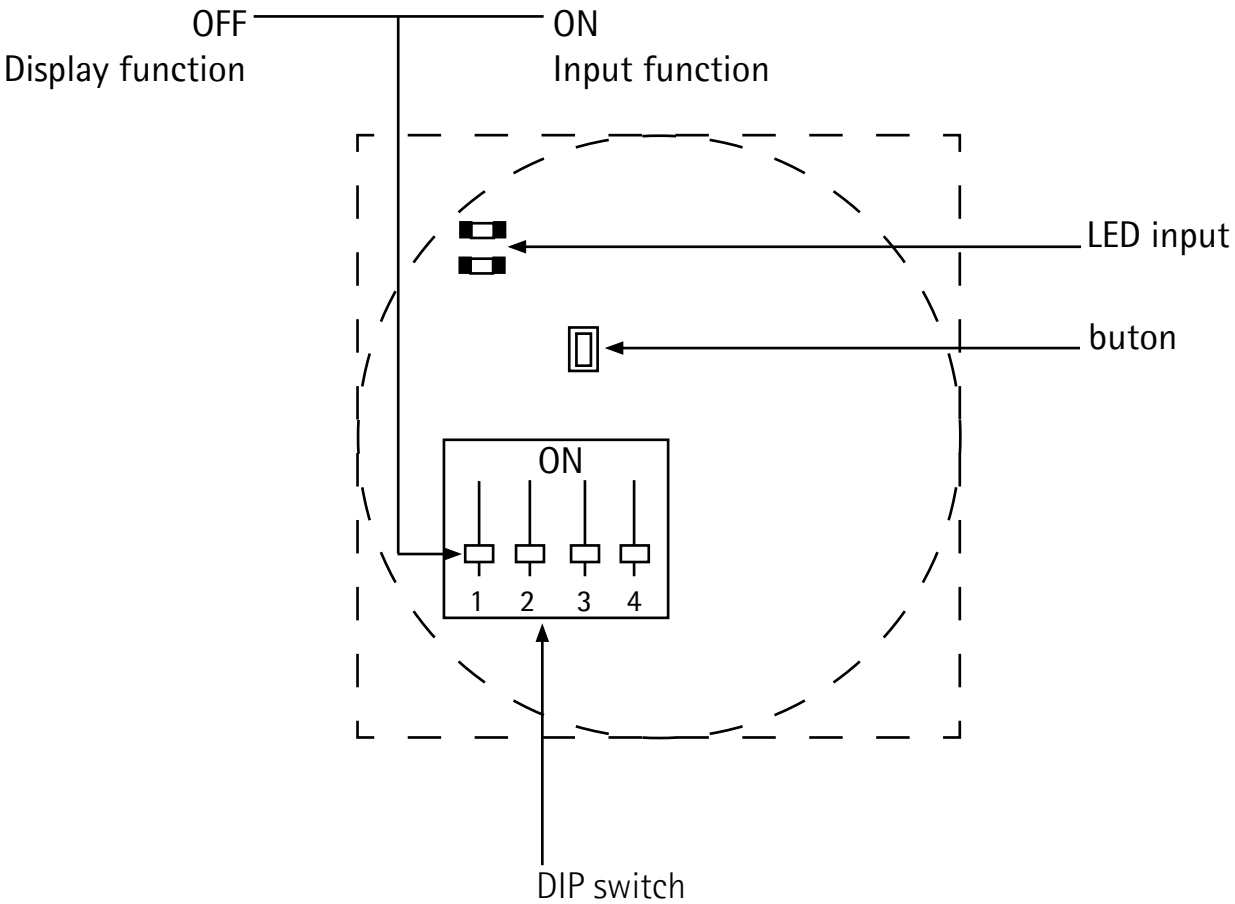
Pin assignment

5.1 Encoder or Connector

Special text or symbol	Floors	Coding (Control)		Display options	
		Dual/Gray	1 out of n	Arrows	Travelling
none	up to 5	Connector	Connector	yes	yes
	6 up to 15	Connector	Encoder 1 out of 15	yes	yes
	16 up to 31	Connector	Encoder 1 out of 31	yes	yes
1	up to 4	Connector	Connector	yes	yes
	5 up to 15	Connector	Encoder 1 out of 15 and Connector	yes	yes
	16 up to 31	Connector	Encoder 1 out of 31	yes	no
2	up to 3	Connector	Connector	yes	yes
	4 up to 7	Connector	Encoder 1 out of 15 and Connector	yes	yes
	8 up to 15	Connector	Encoder 1 out of 15 and Connector	yes	no
	16 up to 31	Connector	Encoder 1 and 31	no	no
3*	up to 2	Connector	Connector	yes	yes
	3	Connector	Encoder 1 out of 15 and Connector	yes	yes
	4 up to 7	Connector	Encoder 1 out of 15 and Connector	yes	no
	8 up to 15	Connector	Encoder 1 out of 15	no	no
	16 up to 31	Connector	Encoder 1 out of 15	no	no
4*	up to 2	Connector	Connector	yes	no
	3	Connector	Encoder 1 out of 15 and Connector	yes	no
	4 up to 7	Connector	Encoder 1 out of 15 and Connector	no	no
	8 up to 15	Connector	Encoder 1 out of 15 and Connector	no	no
	16 up to 31	Connector	not possible		

6 Settings

Various settings can be done directly on the display by means of the key respectively the DIP switches. With the DIP switches the value to be changed is selected, e. g. brightness; with the respective key various values can be selected in steps. The setting is saved when the respective DIP switch is switched off.

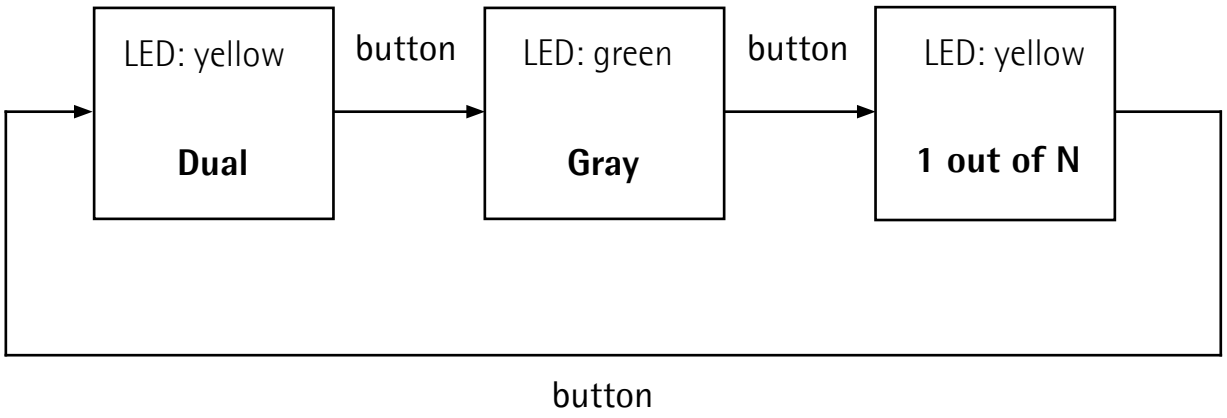


6.1 Input

By means of the DIP switch 1 the input functions can be influenced.

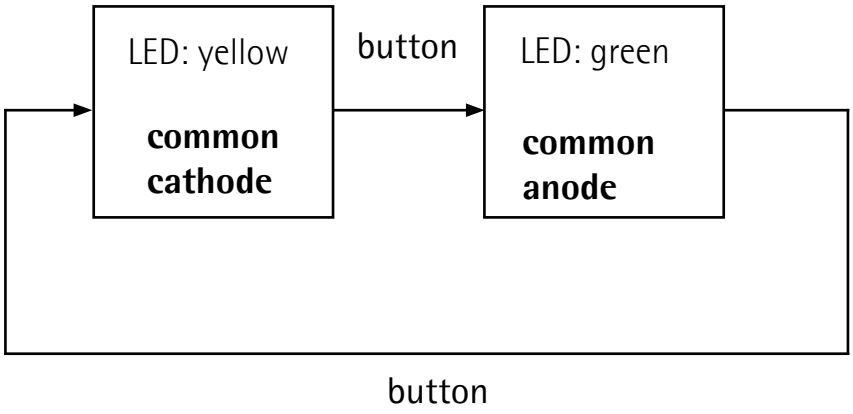
6.1.1 Control

By means of the DIP switches 1 and 2 the control mode can be selected. By means of the key the different control options can be selected in steps. The LEDs input signalize the current status.



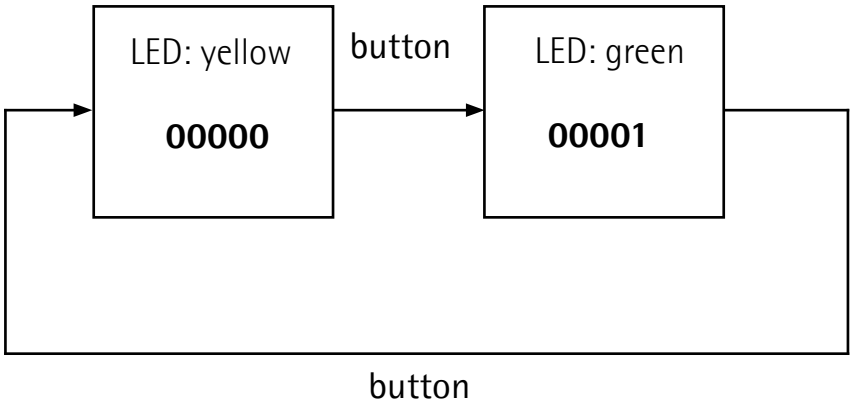
6.1.2 Connection

By means of the DIP switches 1 and 3 the connection variant can be selected. By means of the key the display can be put on common cathode or common anode. The DIP switches 1 and x are provided for future functions; they have no effect here.



6.1.3 Lowest stop

By means of the DIP switches 1, 2 and 3 it can be selected which signal shall be valid for the lowest stop. This signal is either "00000" or "00001" with the control modes Dual and Gray.

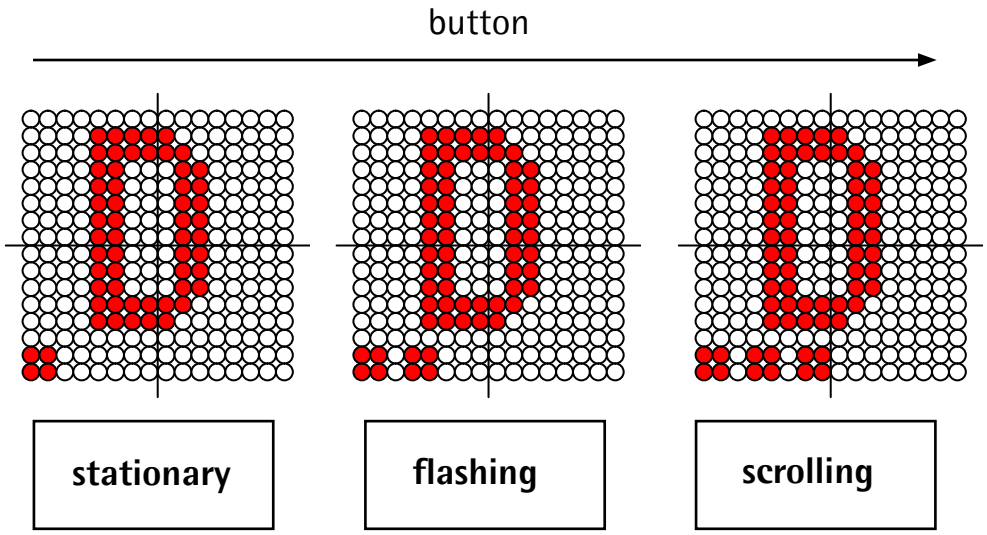


6.2 Dot matrix display

By means of the key the various control modes can be selected in steps. The dot matrix display will display the respective settings. The settings are saved when the respective DIP switch is switched off.

6.2.1 Presentation

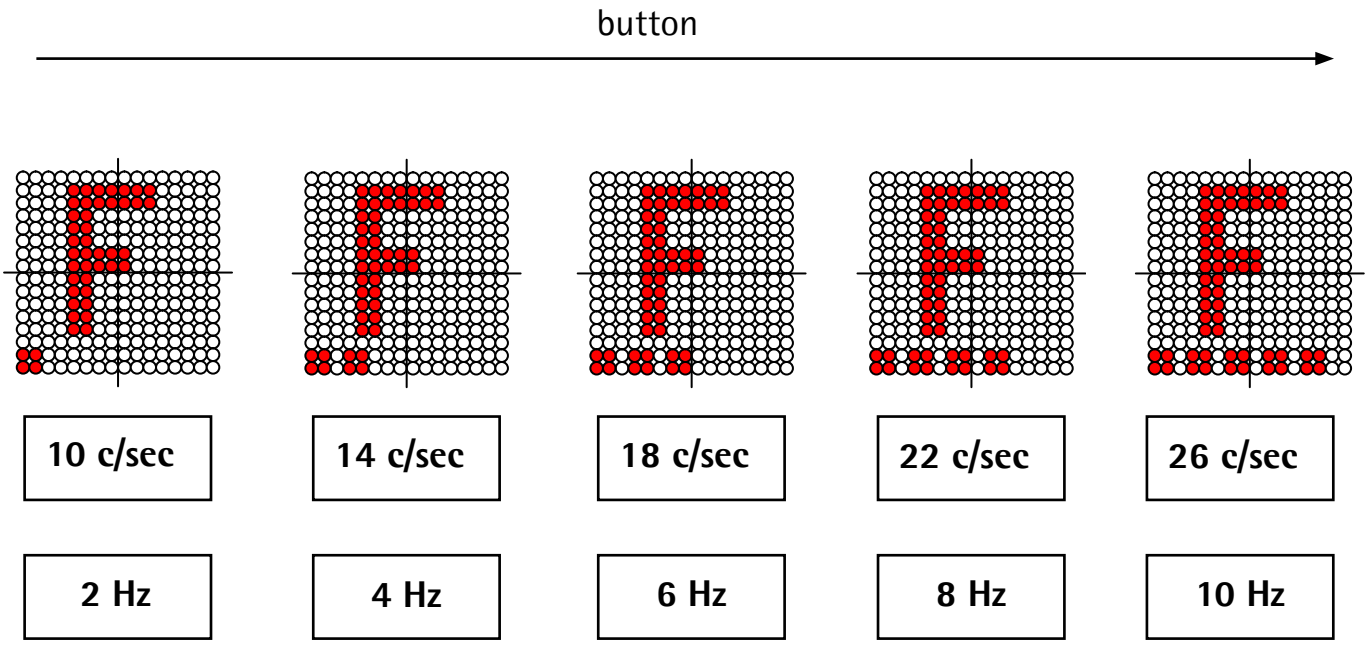
By means of the DIP switch 2 the presentation mode of the character change and of the direction arrows can be modified.



If the flashing presentation is selected, the character change of the floor will be stationary, only the direction arrows will be displayed flashing upon travelling signal.

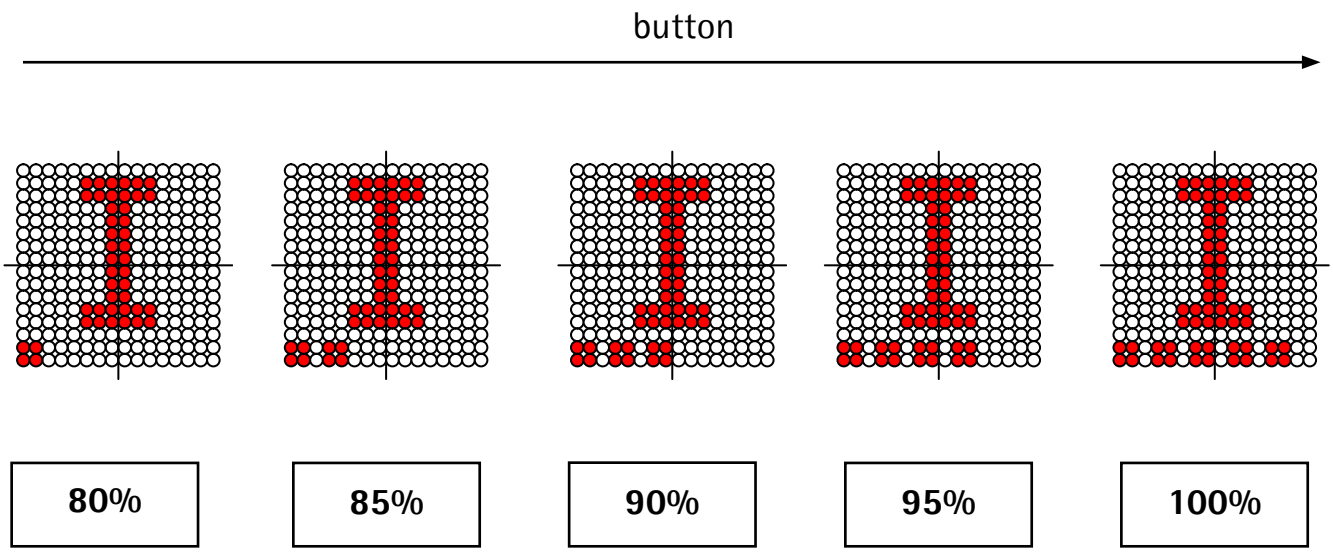
6.2.2 Frequency

By means of the DIP switch 3 the flashing frequency respectively the scrolling speed can be modified, depending on the mode of character change. With the stationary presentation mode the DIP switch has no function.



6.2.3 Brightness/luminosity

By means of the DIP switches 2 and 3 the brightness/ luminosity can be modified.



DIP switch 4 is provided for future functions; it has no effect here.

7 Characteristics

Power supply:	12 V ... 30 V DC, smoothed
Power consumption:	up to 125 mA
Temperature range:	0 °C ... +65 °C
Luminosity:	red 15 mcd/dot blue 15 med/dot
Control 1 out of n:	with additional Encoder up to 31 floors
Control dual/gray:	with additional Connector up to 31 floors

8 Designs

The DMD 16x16 is available in square shape, matching with the Style 50:

D50 DMD 16x16 Q

And in round respectively square shape as design P 50:

P50 DMD 16x16 R
P50 DMD 16x16 Q